

The unsolvable is becoming solvable.

Terra Quantum presents
the world's first

SCALABLE, ZERO-TRUST

SECURE NETWORK

**LEVERAGING END-TO-END
PHYSICAL LINE CONTROL**

99%

**of communications
use Optical Fibres**

**Your data security should
not be based on assumptions**

The assumed difficulty of solving hard mathematical problems is no longer a sustainable option of securely encoding your information.

We can change that.

Future-proof your communications with the innovative, bullet-proof **Terra Quantum Secure Network (TQSN)**, leveraging Quantum Key Distribution.

0.001%

Leakage Detection Precision

Why choose the TQSN solution?



Uses existing Optical Fibres

Compatible with existing telecommunications networks through dark fiber, it removes the need for costly infrastructure upgrades.



Reaching global distances

Propelled by optical amplifiers, the TQSN can transfer keys securely across distances of up to 40,000km.



Zero-trust security with end-to-end line loss control

With total end-to-end line loss control and 0.001% Leakage Detection Precision, you can trust that no trust is required for securing your information.



Record-breaking speed

Achieves unprecedented data transmission speed (key rate), leveraging signal repetition through optical amplification.

PREVENT

STORE NOW - DECRYPT LATER

ATTACKS

Get started today

1. Conduct a security audit to identify your vulnerabilities
2. Next, our team will tailor the solution to your needs
3. Together we will scope out the implementation of the TQSN solution
4. You're now on your path to quantum security

How does it work?



Distributed signal losses are turned into heat

Therefore any information intercepted in this way is irretrievable.



High intensity signal losses are instantly detected

This causes the transmission to switch off in a fail-safe way.



Undetectably low signal losses are irretrievably noisy

Recovery of this information is impossible thanks to the fluctuations specific to the coherent state of the photons.



Optical amplifiers drive signal repetition

This allows information to be transferred securely across global distances at high speed.



Quantum
is NOW.